

Sheet: 1 of 7

FIG. 1

Name	a	b	c	d	e	i	A	B	C	D	E	K	D-1	D0
D.0	0	1	1	0	0	0	0	0	0	0	0	0	+	-
D.0	1	0	0	1	1	1	0	0	0	0	0	0	-	+
D.1	1	0	0	0	1	0	1	0	0	0	0	0	+	-
D.1	0	1	1	1	0	1	1	0	0	0	0	0	-	+
D.2	0	1	0	0	1	0	0	1	0	0	0	0	+	-
D.2	1	0	1	1	0	1	0	1	0	0	0	0	-	+
D.3	1	1	0	0	0	1	1	1	0	0	0	0	x	0
D.4	0	0	1	0	1	0	0	0	1	0	0	0	+	-
D.4	1	1	0	1	0	1	0	0	1	0	0	0	-	+
D.5	1	0	1	0	0	1	1	0	1	0	0	0	x	0
D.6	0	1	1	0	0	1	0	1	1	0	0	0	x	0
D.7	1	1	1	0	0	0	1	1	1	0	0	0	-	0
D.7	0	0	0	1	1	1	1	1	0	0	0	0	+	0
D.8	0	0	0	1	1	0	0	0	1	0	0	0	+	-
D.8	1	1	1	0	0	1	0	0	0	1	0	0	-	+
D.9	1	0	0	1	0	1	1	0	0	1	0	0	x	0
D.10	0	1	0	1	0	1	0	1	0	1	0	0	x	0
D.11	1	1	0	1	0	0	1	1	0	1	0	0	x	0
D.12	0	0	1	1	0	1	0	0	1	1	0	0	x	0
D.13	1	0	1	1	0	0	1	0	1	1	0	0	x	0
D.14	0	1	1	1	0	0	0	1	1	1	0	0	x	0
D.15	1	0	1	0	0	0	1	1	1	1	0	0	+	-
D.15	0	1	0	1	1	1	1	1	1	0	0	0	-	+
D.16	0	1	1	0	1	1	0	0	0	0	1	0	-	+
D.16	1	0	0	1	0	0	0	0	0	1	0	0	+	-
D.17	1	0	0	0	1	1	1	0	0	0	1	0	x	0
D.18	0	1	0	0	1	1	0	1	0	0	1	0	x	0
D.19	1	1	0	0	1	0	1	1	0	0	1	0	x	0
D.20	0	0	1	0	1	1	0	0	1	0	1	0	x	0
D.21	1	0	1	0	1	0	1	0	1	0	1	0	x	0
D.22	0	1	1	0	1	0	0	1	1	0	1	0	x	0
D/K.23	1	1	1	0	1	0	1	1	1	0	1	x	-	+
D/K.23	0	0	0	1	0	1	1	1	0	1	1	x	+	-
D24	0	0	1	1	0	0	0	0	1	1	1	0	+	-
D24	1	1	0	0	1	1	0	0	0	1	1	0	-	+
D.25	1	0	0	1	1	0	1	0	0	1	1	0	x	0
D.26	0	1	0	1	1	0	0	1	0	1	1	0	x	0
D/K.27	1	1	0	1	1	0	1	1	0	1	1	x	-	+
D/K.27	0	0	1	0	0	1	1	1	0	1	1	x	+	-
D.28	0	0	1	1	1	0	0	0	1	1	1	0	x	0
K.28	0	0	1	1	1	1	0	0	1	1	1	1	-	+
K.28	1	1	0	0	0	0	0	0	1	1	1	1	+	-
D/K.29	1	0	1	1	1	0	1	0	1	1	1	x	-	+
D/K.29	0	1	0	0	0	1	1	0	1	1	1	x	+	-
D/K.30	0	1	1	1	1	0	0	1	1	1	1	x	-	+
D/K.30	1	0	0	0	0	1	0	1	1	1	1	x	+	-
D.31	1	0	1	0	1	1	1	1	1	1	1	0	-	+
D.31	0	1	0	1	0	0	1	1	1	1	1	0	+	-

Sheet: 2 of 7

FIG. 2

Name	f	g	h	j	F	G	H	K	D-1	D0
D/K.x.0	0	1	0	0	0	0	0	x	+	-
D/K.x.0	1	0	1	1	0	0	0	x	-	+
D/K.x.1	1	0	0	1	1	0	0	x	x	0
K.28.1	0	1	1	0	1	0	0	1		0
D/K.x.2	0	1	0	1	0	1	0	x	x	0
K.28.2	1	0	1	0	0	1	0	1		0
D/K.x.3	1	1	0	0	1	1	0	x	-	0
D/K.x.3	0	0	1	1	1	1	0	x	+	0
D/K.x.4	0	0	1	0	0	0	1	x	+	-
D/K.x.4	1	1	0	1	0	0	1	x	-	+
D/K.x.5	1	0	1	0	1	0	1	x	x	0
K.28.5	0	1	0	1	1	0	1	1		0
D/K.x.6	0	1	1	0	0	1	1	x	x	0
K.28.6	1	0	0	1	0	1	1	1		0
D.x.7	1	1	1	0	1	1	1	0	-	+
D.x.7	0	0	0	1	1	1	1	0	+	-
D/K.x.7	0	1	1	1	1	1	1	x	-	+
D/K.x.7	1	0	0	0	1	1	1	x	+	-

FIG. 3

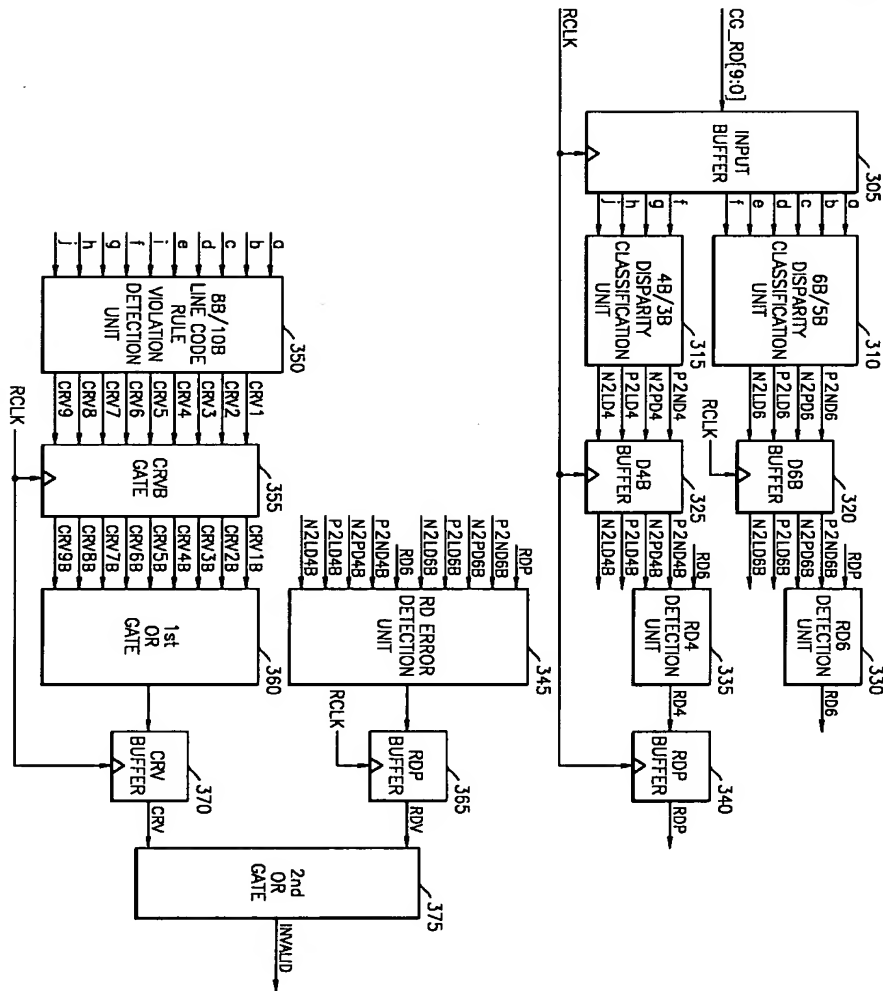


FIG. 4

Name	Disparity Class
P2ND6	$(P22^*e^*)^*(i^*)$ OR $(P13^*e^*)$ OR $(P13(i^*))$
N2PD6	$(P22^*e^*i)$ OR $(P31^*e)$ OR $(P31^*i)$
P2LD6	$P13^*d^*e^*i$
N2LD6	$P31^*(d^*)^*(e^*)^*(i^*)$
Note. 1. * : Logical AND 2. ' : Logical NOT 3. ^ : Logical Exclusive-OR 4. P22 = $((a^*b)^*((c^*)^*(d^*)))$ OR $((c^*d)^*(a)^*(b^*))$ OR $((a^*b)^*(c^*d))$ 5. P13 = $((a^*b)^*((c^*)^*(d^*)))$ OR $((c^*d)^*(a)^*(b^*))$ 6. P31 = $((a^*b)^*(c^*d)$ OR $((c^*d)^*(a^*b)$	

FIG. 5

Name	Disparity Class
P2ND4	$((f^*)^*(h^*)^*(j^*))$ OR $((f^*)^*(g^*)^*(j^*))$ OR $((f^*)^*(g^*)^*(h^*))$ OR $((g^*)^*(h^*)^*(j^*))$
N2PD4	(f^*h^*j) OR (f^*g^*j) OR (f^*g^*h) OR (g^*h^*j)
P2LD4	$(f^*)^*(g^*)^*h^*j$
N2LD4	$f^*g^*(h^*)^*(j^*)$
Note. 1. * : Logical AND 2. ' : Logical NOT	

FIG. 6A

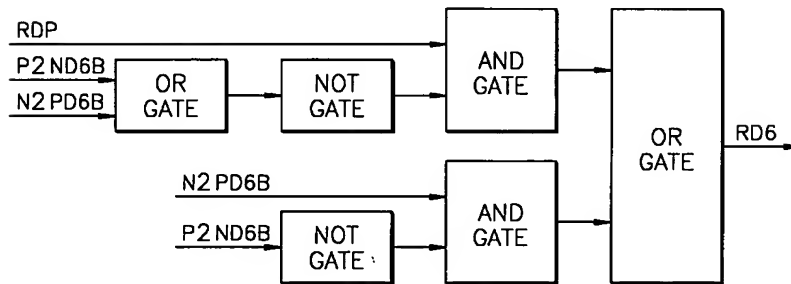


FIG. 6B

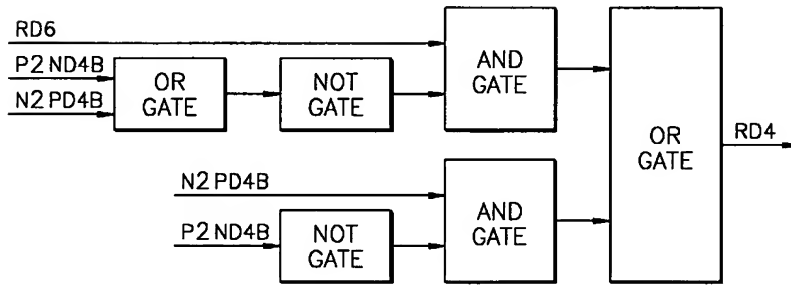


FIG. 7

Name	Running Disparity Violation Class
RDV1	$P2ND68^*(RD6^*)$
RDV2	$N2PD68^*RD6$
RDV3	$P2LD68^*(RD6^*)$
RDV4	$N2LD68^*RD6$
RDV5	$P2ND48^*(RD6^*)$
RDV6	$N2PD48^*RD6$
RDV7	$P2LD48^*(RD6^*)$
RDV8	$N2LD48^*RD6$

Note. 1. * : Logical AND
 2. . : Logical NOT

FIG. 8

Name	8B/10B Line-Coding Rule Violation Class
CRV1	$a = b = c = d$
CRV2	$P13^*(e^*)^*(i^*)$
CRV3	$P31^*e^*i$
CRV4	$f = g = h = j$
CRV5	$e = i = f = g = h$
CRV6	$iA(e = g = h = j)$
CRV7	$((e = i) \wedge (g = h = j))^*(c = d = e)^*$
CRV8	$(P31^*)^*(e^*)^*(i^*)^*(g^*)^*(h^*)^*(j^*)$
CRV9	$(P13^*)^*(e^*)^*(i^*)^*(g^*)^*(h^*)^*(j^*)$

Note. 1. * : Logical AND
 2. . : Logical NOT
 3. A : Logical Exclusive-OR
 4. P22 = $((a^*)^*(b^*)^*(c^*)^*(d^*))$ OR $((c^*)^*(d^*)^*(a^*)^*(b^*))$ OR $((a^*)^*(c^*)^*(b^*)^*(d^*))$
 5. P13 = $((a^*)^*(b^*)^*(c^*)^*(d^*))$ OR $((c^*)^*(d^*)^*(a^*)^*(b^*))$
 6. P31 = $((a^*)^*(b^*)^*(c^*)^*(d^*))$ OR $((c^*)^*(d^*)^*(a^*)^*(b^*))$

FIG. 9

